

# Translation

## PATENT COOPERATION TREATY

# PCT

PCT/JP2003/010068



### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

08 FEB 2005

Applicant's or agent's file reference <b>HO-F66PCT</b>	<b>FOR FURTHER ACTION</b> See Form PCT/IPEA/416	
International application No. <b>PCT/JP2003/010068</b>	International filing date (day/month/year) <b>07 August 2003 (07.08.2003)</b>	Priority date (day/month/year) <b>08 August 2002 (08.08.2002)</b>
International Patent Classification (IPC) or national classification and IPC <b>C08F 20/58, 2/44, C08G 61/12</b>		
Applicant <b>HONDA GIKEN KOGYO KABUSHIKI KAISHA</b>		

- This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
- This REPORT consists of a total of 5 sheets, including this cover sheet.
- This report is also accompanied by ANNEXES, comprising:
  - ☒ (sent to the applicant and to the International Bureau) a total of 7 sheets, as follows:
    - ☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
    - ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
  - ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) \_\_\_\_\_, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

- This report contains indications relating to the following items:

- ☒ Box No. I Basis of the report
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☒ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

Date of submission of the demand <b>26 February 2004 (26.02.2004)</b>	Date of completion of this report <b>15 September 2004 (15.09.2004)</b>
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/010068

## Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language \_\_\_\_\_, which is language of a translation furnished for the purpose of:
- ☐ international search (under Rules 12.3 and 23.1(b))
- ☐ publication of the international application (under Rule 12.4)
- ☐ international preliminary examination (under Rules 55.2 and/or 55.3)
2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
- ☐ The international application as originally filed/furnished
- ☒ the description:
- pages \_\_\_\_\_ 1-2, 5-14 \_\_\_\_\_, as originally filed/furnished
- pages\* \_\_\_\_\_ 4, 4/1 \_\_\_\_\_ received by this Authority on \_\_\_\_\_ 26 February 2004 (26.02.2004)
- pages\* \_\_\_\_\_ 3 \_\_\_\_\_ received by this Authority on \_\_\_\_\_ 15 July 2004 (15.07.2004)
- ☒ the claims:
- pages \_\_\_\_\_ 2, 6-7, 11-12, 14, 19-22 \_\_\_\_\_, as originally filed/furnished
- pages\* \_\_\_\_\_, as amended (together with any statement) under Article 19
- pages\* \_\_\_\_\_ 3-4, 9, 13, 15, 17-18 \_\_\_\_\_ received by this Authority on \_\_\_\_\_ 26 February 2004 (26.02.2004)
- pages\* \_\_\_\_\_ 1, 5, 10, 16 \_\_\_\_\_ received by this Authority on \_\_\_\_\_ 15 July 2004 (15.07.2004)
- ☒ the drawings:
- pages \_\_\_\_\_ 1-10 \_\_\_\_\_, as originally filed/furnished
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3. ☒ The amendments have resulted in the cancellation of:
- ☐ the description, pages \_\_\_\_\_
- ☒ the claims, Nos. \_\_\_\_\_ 8 \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

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Box No. IV Lack of unity of invention

1. ☐ In response to the invitation to restrict or pay additional fees the applicant has:

- ☐ restricted the claims.
- ☐ paid additional fees.
- ☐ paid additional fees under protest.
- ☐ neither restricted nor paid additional fees.

2. ☐ This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.

3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is

- ☒ complied with.
- ☐ not complied with for the following reasons:

4. Consequently, this report has been established in respect of the following parts of the international application:

- ☒ all parts.
- ☐ the parts relating to claims Nos. \_\_\_\_\_

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.  
PCT/JP93/10068

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. Statement

Novelty (N)	Claims	1-7, 9-22	YES
	Claims		NO
Inventive step (IS)	Claims	1-7, 9-22	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-7, 9-22	YES
	Claims		NO

### 2. Citations and explanations

The prior art documents below, cited in the international search report, do not disclose a molecularly aligned polymer gel formed by self-organization of an amphiphilic compound capable of self-organization and (a) monomer(s) which interact(s) with the aforementioned amphiphilic compound, followed by polymerization of the aforementioned monomer, wherein the aforementioned monomer(s) is/are thiophene and/or a thiophene derivative, pyrrole and/or a pyrrole derivative or 2-acrylamide-2-methylpropanesulphonic acid; and this feature is not obvious.

They also do not disclose or suggest film made by casting an aforementioned molecularly aligned polymer gel or a process for polymerising the same.

Therefore, the inventions set forth in claims 1-7 and 9-22 are novel and involve an inventive step.

#### Prior art documents

JP 2-238029 A (Shingijutsu Kaihatsu Jigyodan), 20 September 1990

JP 6-263874 A (Honda Motor Co., Ltd.), 20 September 1994

JP 2-308811 A (Mitsubishi Heavy Industry, Ltd.), 21 December 1990

JP 2002-5887 A (Zaidan Hojin Kawamura Rikagaku Kenkyusho),

**INTERNATIONAL PRELIMINARY EXAMINATION REPORT**

International application No.

PCT/JP 9-299868/10068

9 January 2002

JP 9-299868 A (Tokuyama Corp.), 25 November 1997